

# 60 Perimeter and Area 1



## A The Boundary

The perimeter of a shape is the total length around the boundary of the shape. Since perimeter is a length, the unit is mm or cm, or for large shapes m or even km.

Example :

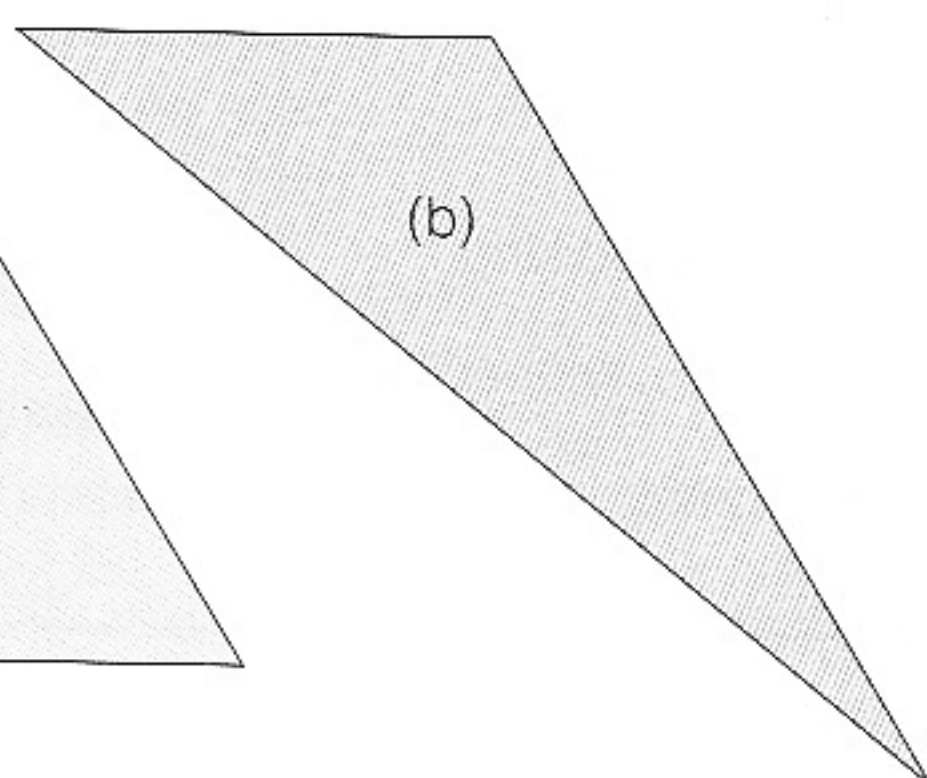
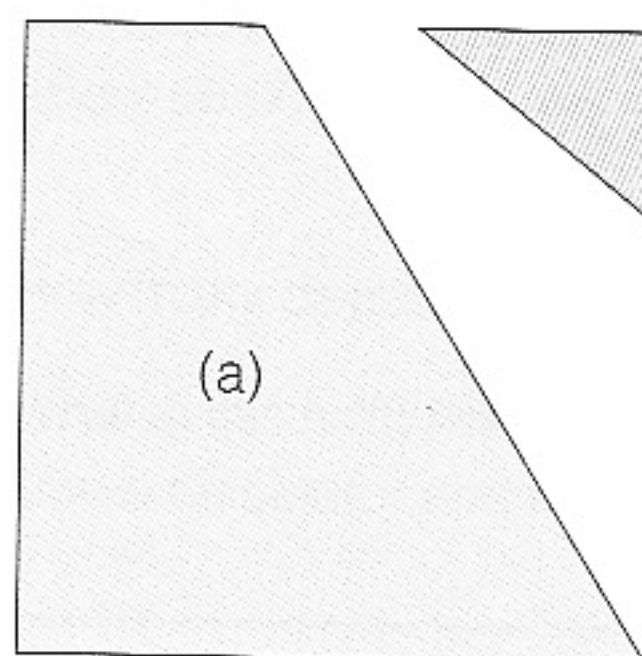


Measure the perimeter of this triangle. Give the answer in cm.

Working : The sides of the triangle are 20 mm, 12 mm and 20 mm. Add these lengths together.

Answer : Perimeter = 52 mm = 5.2 cm.

- 1 Use your ruler to work out the perimeters of these shapes. Give your answers in centimetres.

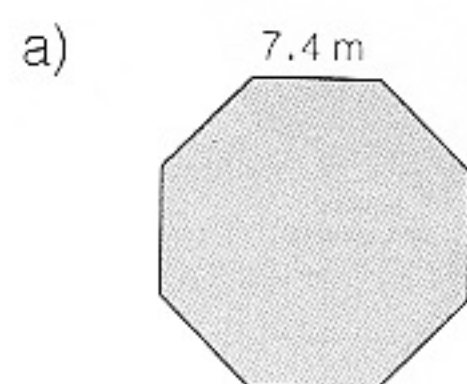


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- 2 These are sketches of blocks of land. Use the given measurements to work out the perimeters.

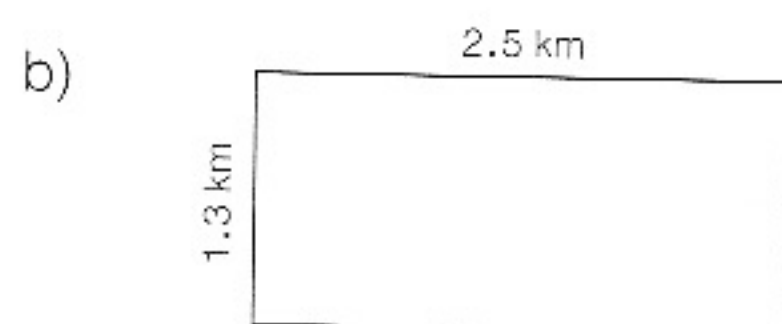


The lawn in the *Rosarium* has the shape of a regular octagon.



Calculate the perimeter of the lawn.

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This is a rectangular forestry block. Calculate its perimeter.

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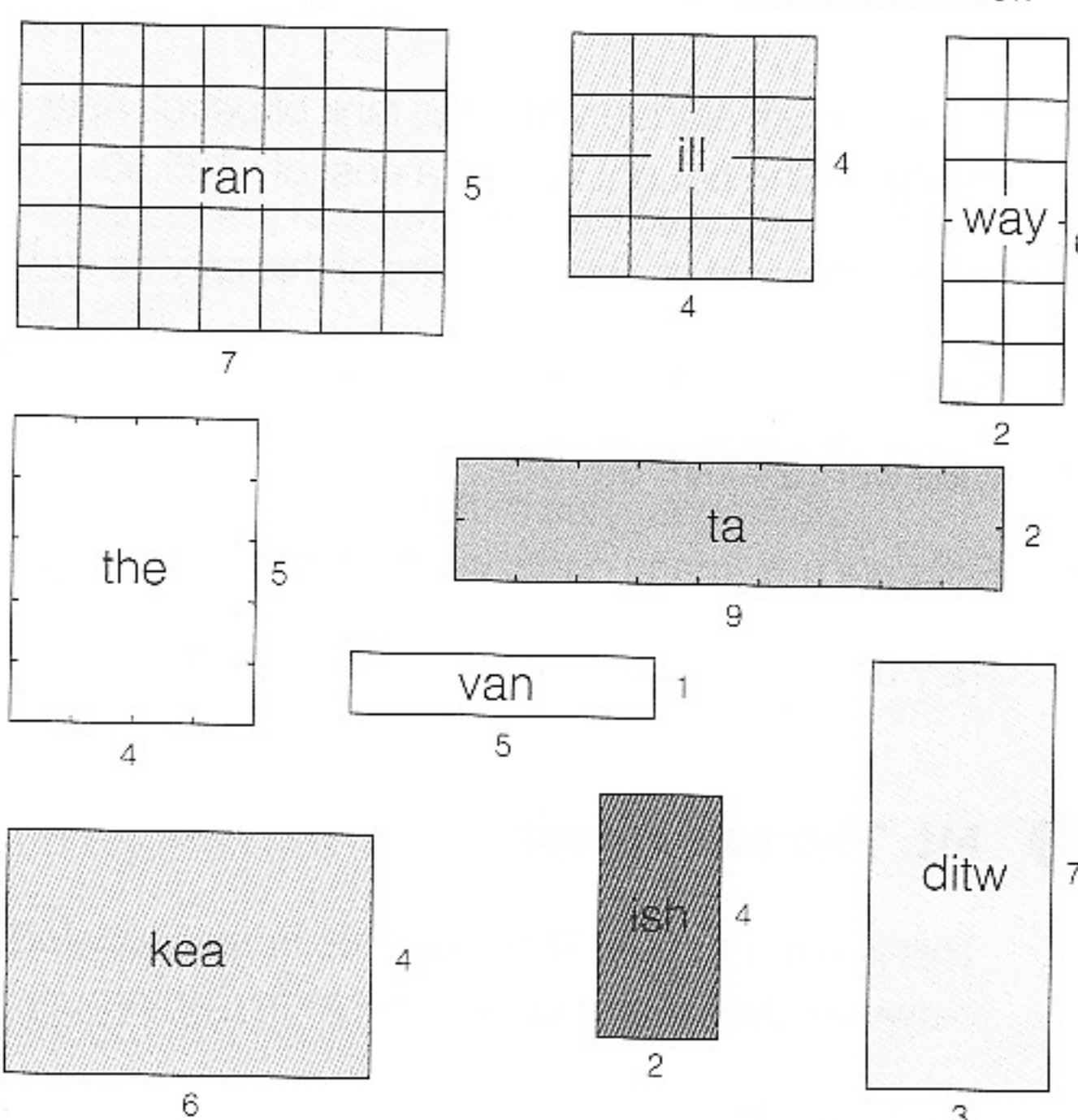
## B Do It Yourself

The area of a shape is the amount of flat space it occupies. This flat space can be measured by covering it with squares, then counting the squares.

For instance, we can count bathroom tiles if we want to work out the area of a bathroom wall.

- 1 Riddle : 'How do you get rid of unwanted varnish?'

To decode the answer, count the number of grid squares in each rectangle. Place its label above the answer.



Answer :

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18	24	12	20	35	21	16	5	8

- 2 Below are 3 irregular shapes A, B and C. By covering them with a grid we can compare their areas.

- a) Which shape has an area of about 19 grid squares?

Shape .....

- b) Which shape has the largest area? Shape .....

